

ANNEX II

2002 Barbados Global Youth Tobacco Survey Sample Description and Weighting Procedures

Site: Barbados All Schools

SAMPLE DESCRIPTION:

All schools containing forms 3,4 and 5 that contained 40 or more students were included in the sampling frame. A two-stage cluster sample design was used to produce a representative sample of students in forms 3-5.

School Level - The first-stage sampling frame consisted of all schools containing forms 3-5. Schools were selected with probability proportional to school enrolment size.

Class Level - The second sampling stage consisted of systematic equal probability sampling (with a random start) of classes from each school that participated in the survey. All classes in the selected schools were included in the sampling frame. All students in the selected classes were eligible to participate in the survey.

OVERALL RESPONSE RATES:

Schools - 100.00% 100 of the 100 sampled schools participated.

Students- 85.66% 1654 of the 1931 sampled students completed usable questionnaires

Overall response rate - $100.00\% * 85.66\% = 85.66\%$

WEIGHTING:

A weight has been associated with each questionnaire to reflect the likelihood of sampling each student and to reduce bias by compensating for differing patterns of nonresponse. The weight used for estimation is given by:

$$W = W1 * W2 * f1 * f2 * f3 * f4$$

W1 = the inverse of the probability of selecting the school

W2 = the inverse of the probability of selecting the classroom within the school

f1 = a school-level nonresponse adjustment factor calculated by school size category (small, medium, large).

f2= a class adjustment factor calculated by school

f3 = a student-level nonresponse adjustment factor calculated by class

f4 = a post stratification adjustment factor calculated by gender and grade

USE OF THE WEIGHTED RESULTS:

The weighted results can be used to make important inferences concerning tobacco use risk behaviours of students in forms 3-5.